

INTERNATIONAL SEARCH REPORT

Inter Application No
PC 1/GB2004/005452

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L21/18 H01S5/026

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	AIMEZ V ET AL: "HIGH PRECISION METAL MASKING FOR MULTIPLE WAVELENGTH LASER DIODE FABRICATION USING SINGLE STEP ION IMPLANTATION INDUCED QUANTUM WELL INTERMIXING" PROCEEDINGS OF THE SPIE, SPIE, BELLINGHAM, VA, US, vol. 4087, 12 June 2000 (2000-06-12), pages 607-615, XP009002640 ISSN: 0277-786X cited in the application the whole document	1-36
A	WO 01/67497 A (NTU VENTURES PTE LTD; FINNIE, PETER, JOHN; OOI, BOON, SIEW; LAM, YEE,) 13 September 2001 (2001-09-13) abstract	1-36

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

28 June 2005

Date of mailing of the international search report

06/07/2005

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Le Meur, M-A

INTERNATIONAL SEARCH REPORT

Application No
PCT/GB2004/005452

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 027 989 A (POOLE ET AL) 22 February 2000 (2000-02-22) abstract</p> <p>-----</p>	1-36

INTERNATIONAL SEARCH REPORT

indicates patent family members

Inter Application No
PCT/GB2004/005452

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0167497	A	13-09-2001	WO 0167569 A1	13-09-2001
			WO 0167499 A1	13-09-2001
			AT 280445 T	15-11-2004
			AU 774678 B2	01-07-2004
			AU 3583001 A	17-09-2001
			AU 775026 B2	15-07-2004
			AU 3583601 A	17-09-2001
			BR 0109069 A	07-12-2004
			BR 0109073 A	26-11-2002
			CA 2398301 A1	13-09-2001
			CA 2398359 A1	13-09-2001
			CN 1416607 A	07-05-2003
			CN 1416589 A	07-05-2003
			DE 60106575 D1	25-11-2004
			EP 1262002 A1	04-12-2002
			EP 1261986 A1	04-12-2002
			WO 0167568 A1	13-09-2001
			WO 0167497 A1	13-09-2001
			JP 2003526918 T	09-09-2003
			JP 2004500715 T	08-01-2004
			MX PA02008451 A	14-05-2004
			RU 2240632 C2	20-11-2004
			RU 2239258 C2	27-10-2004
			US 2002003918 A1	10-01-2002
			US 2002004253 A1	10-01-2002
			ZA 200205930 A	24-07-2003
			ZA 200205931 A	18-08-2003
US 6027989	A	22-02-2000	DE 69602429 D1	17-06-1999
			DE 69602429 T2	23-09-1999
			EP 0812485 A1	17-12-1997
			CA 2212751 A1	06-09-1996
			WO 9627226 A1	06-09-1996

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/005452

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L21/18 H01S5/026

CORRECTED VERSION

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	AIMEZ V ET AL: "HIGH PRECISION METAL MASKING FOR MULTIPLE WAVELENGTH LASER DIODE FABRICATION USING SINGLE STEP ION IMPLANTATION INDUCED QUANTUM WELL INTERMIXING" PROCEEDINGS OF THE SPIE, SPIE, BELLINGHAM, VA, US, vol. 4087, 12 June 2000 (2000-06-12), pages 607-615, XP009002640 ISSN: 0277-786X cited in the application the whole document	1-36
A	WO 01/67497 A (NTU VENTURES PTE LTD; FINNIE, PETER, JOHN; BOON, SIEW; LAM, YEE,) 13 September 2001 (2001-09-13) abstract	1-36

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

28 June 2005

Date of mailing of the international search report

10. 08. 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Le Meur, M-A

INTERNATIONAL SEARCH REPORT

International Application No

P GB2004/005452

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 027 989 A (POOLE ET AL) 22 February 2000 (2000-02-22) abstract -----	1-36

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/005452

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0167497	A	13-09-2001	WO 0167569 A1	13-09-2001
			WO 0167499 A1	13-09-2001
			AT 280445 T	15-11-2004
			AU 774678 B2	01-07-2004
			AU 3583001 A	17-09-2001
			AU 775026 B2	15-07-2004
			AU 3583601 A	17-09-2001
			BR 0109069 A	07-12-2004
			BR 0109073 A	26-11-2002
			CA 2398301 A1	13-09-2001
			CA 2398359 A1	13-09-2001
			CN 1416607 A	07-05-2003
			CN 1416589 A	07-05-2003
			DE 60106575 D1	25-11-2004
			EP 1262002 A1	04-12-2002
			EP 1261986 A1	04-12-2002
			WO 0167568 A1	13-09-2001
			WO 0167497 A1	13-09-2001
			JP 2003526918 T	09-09-2003
			JP 2004500715 T	08-01-2004
			MX PA02008451 A	14-05-2004
			RU 2240632 C2	20-11-2004
			RU 2239258 C2	27-10-2004
			US 2002003918 A1	10-01-2002
			US 2002004253 A1	10-01-2002
			ZA 200205930 A	24-07-2003
			ZA 200205931 A	18-08-2003

US 6027989	A	22-02-2000	DE 69602429 D1	17-06-1999
			DE 69602429 T2	23-09-1999
			EP 0812485 A1	17-12-1997
			CA 2212751 A1	06-09-1996
			WO 9627226 A1	06-09-1996
